**CHINH PHỤC CÁC KỲ THI TOÁN QUỐC TẾ**

Năm học mới đã bắt đầu, các bạn nhỏ trường Tiểu học Long Biên lại tiếp tục chinh phục những tấm huy chương toán Quốc tế.

 Mời các bạn cùng đến với chuyên đề Toán trung bình cộng, tham khảo cách làm, các ví dụ và bài tập thực hành ở dạng toán này nhé!

**AVERAGE PROBLEMS**

The concept of average is used extensively in our daily lives. Forexample, the average class score for a mathematics testor science final examination, pupils’ average height, etc. The formulae to find averge and total are shown below

Average=total ÷ number of units or events

Total = average x number of units or events

An interesting fact on average is also shown below

1+2+3+…..+49+50=(average of the first and last rerms) x number of terms

**EXAMPLES**

1. Daniel’s average mark for the first three tests in a year was 73. He worked very hard for the last test in that year to improve his average mark to 75. How many marks did he score for the last test to achive this?

2. The sum of eight consecutive whole numbers is 188. List all the eight numbers.

3. It took Samuel 18 min to walk to the library at a speed of 40 m/min. He returned from the library at a walking speed of 60 m/min. What was his average speed for the whole trip?

4. The average of A and B is 20. The average of B and C is 15. The arerage of C and D is 18. Find the average of A and D

**PRACTICE**

1. The average mass of three people in a lift was 60 kg. After another person boarded the lift, the average mass became 57 kg. What was the mass of the last person?

2. The average of three numbers is 120. What number must be added so that the average will become 110?

3. The table below shows the scores of six students in the second Continual assessment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Danny | Alison | Peter | John | Damien | Melissa |
| 77 | 82 | 78 | 95 | 83 | 75 |

What is the average score in the Continual Assessment without considering the highest and the lowest scores?

4. A box thumbnails weighed 1590 g. The box of thumbnails weighed 1470 g after 40 thumbnails were taken out from the box. How many thumbnails were there in the box at first?

5. The average of five numbers is 20. The average of the five numbers is 18 when one of the numbers is changed to 4. What is the original value of the changed number?

6. The average of 35, 40, 41 m and 50 is 45

Find the value of m.

7. The average of A , B and C is 70. The value of A is 2 more than B. The value of B is 11 more than C.

8. Julie read 83 pages of a storybook on the first day, 66 pages on the second day, 74 pages on the third day and 73 pages on the fourth day. The number of pages she read on the fifth day was 12 pages more than the average number of pages she had read during the first four days. How many pages did she read on the fifth day?

9. The average of A and B is 50

 The average of B and C is 43

 The average of A and C is 45

 Find the average of A , B and C

10. Joseph managed to read 83 pages of a storybook on day 1 of a week. He read another 65 pages, 60 pages and 84 pages of the same storybook on day 2, day 3 and day 4 respectively. On day 5, he read 8 pages more than the average number of pages he had read during the five days. How many pages of the storybook did he read on day 5?

11. The average mass of Ken, David and Eugene is 42 kg. David is 6 kg heavier than the average mass of Ken and Eugene. Ken is 6 kg heavier than Eugene Find David’s mass.

12. Matthew needs to get a perfect score of 100 for his last English test in this year so as to improve on his average score for the whole year from 84 to 86. How many English tests are there altogether in this year?

13. A car travelled from Town A to Town B at a speed of 30 km/h. The driver returned from Town B in the same car at a speed of 60 km/h. What was the average driving speed for the two trips?

14. The average of A and B is 8. The average of B and C is 3.6. The average of C and D is 5.8. Find the average of A and D.

15. The average mass of a group of children is 36 kg. If 3 of the number of

children are girls and their average mass is 32 kg, find the average mass of the boys.

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